



FORM PTO-1449

THIRD SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1744.0710005APPLICATION NO.  
09/590,955INVENTORS  
JOHNSON *et al.*FILING DATE  
June 9, 2000ART UNIT  
2634

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
W	AD56	5,955,992	09/1999	Shattil			
W	AE56	5,999,561	12/1999	Naden <i>et al.</i>			
J	AF56	6,686,879 B2	02/2004	Shattil			
J	AG56	5,345,239	09/1994	Madni <i>et al.</i>			
	AH						
	AI						

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## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
	AK						Yes No
W	AL23	DE 196 48 915 A1	06/1998	DE			Yes (Doc. AO59)
	AM						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AN		
W	AO	59	English Translation of German Patent Publication No. DE 196 48 915 A1, 10 pages.
	AP		
	AQ		
	AR		

EXAMINER

Curtis Oden

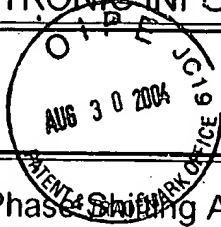
DATE CONSIDERED

10/14/04

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# ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18  
 Stylesheet Version v18.0



Title of Invention

Phase-Shifting Applications of Universal Frequency Translation

Application Number: 09/590955

Confirmation Number: 2387

First Named Applicant: Martin JOHNSON

Attorney Docket Number: 1744.0710005

Art Unit: 2634

Examiner: Curtis B. Odom

Search string: ( 6687493 or 6694128 or 6704549 or 6704558 or 5490176 or 5970053 or 6078630 or 6600911 or 5179731 or 5589793 or 4510467 or 4772853 or 4972436 or 5012245 or 5422909 or 5440311 or 5926513 or 5995030 or 6047026 or 6049573 or 6076015 or 6144331 or 6018553 or 6317589 or 5058107 or 5757858 or 6531979 or 6018262 or 4761798 or 5982315 or 6459721 or 6151354 or 6169733 or 6363262 or 6697603 or 5678226 or 5760632 or 6160280 or 5481570 or 5745846 or 6031217 or 4132952 or 5260973 or 6307894 or 6091289 or 6437639 or 20020037706 ).pn.



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## US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
Co	1	6687493	2004-02-03	Sorrells et al.	B1		
Co	2	6694128	2004-02-17	Sorrells et al.	B1		
Co	3	6704549	2004-03-09	Sorrells et al.	B1		
Co	4	6704558	2004-03-09	Sorrells et al.	B1		
Co	5	5490176	1996-02-06	Peltier			
Co	6	5970053	1999-10-19	Schick et al.			
Co	7	6078630	2000-06-20	Prasanna			
Co	8	6600911	2003-07-29	Morishige et al.	B1		
Co	9	5179731	1993-01-12	Trankle et al.			
Co	10	5589793	1996-12-31	Kassapian			
Co	11	4510467	1985-04-09	Chang et al.			
Co	12	4772853	1988-09-20	Hart			
Co	13	4972436	1990-11-20	Halim et al.			
Co	14	5012245	1991-04-30	Scott et al.			

SUB\_TYPE=Information\_Disclosure\_Statement EFS\_ID=67638 APP\_ID=09590955 DOC\_TYPE=us-ids

15	5422909	1995-06-06	Love et al.	
16	5440311	1995-08-08	Gallagher et al.	
17	5926513	1999-07-20	Suominen et al.	
18	5995030	1999-11-30	Cabler	
19	6047026	2000-04-04	Chao et al.	
20	6049573	2000-04-11	Song	
21	6076015	2000-06-13	Hartley et al.	
22	6144331	2000-11-07	Jiang	
23	6018553	2000-01-25	Sanielevici et al.	
24	6317589	2001-11-13	Nash	B1
25	5058107	1991-10-15	Stone et al.	
26	5757858	1998-05-26	Black et al.	
27	6531979	2003-03-11	Hynes	
28	6018262	2000-01-25	Noro et al.	
29	4761798	1988-08-02	Griswold, Jr. et al.	
30	5982315	1999-11-09	Bazarjani et al.	
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32	6151354	2000-11-21	Abbey	
33	6169733	2001-01-02	Lee	
34	6363262	2002-03-26	McNicol	B1
35	6697603	2004-02-24	Lovinggood et al.	B1
36	5678226	1997-10-14	Li et al.	
37	5760632	1998-06-02	Kawakami et al.	
38	6160280	2000-12-12	Bonn et al.	
39	5481570	1996-01-02	Winters	
40	5745846	1998-04-28	Myer et al.	
41	6031217	2000-02-29	Aswell et al.	
42	4132952	1979-01-02	Hongu et al.	
43	5260973	1993-11-09	Watanabe	
44	6307894	2001-10-23	Eidson et al.	B2
45	6091289	2000-07-18	Song et al.	
46	6437639	2002-08-20	Nguyen et al.	B1

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## US Published Applications

Note: Applicant is not required to submit a paper copy of cited US Published Applications

init	Cite.No.	Pub. No.	Date	Applicant	Kind	Class	Subclass
US	1	20020037706	2002-03-28	Ichihara	A1		

SUB\_TYPE=Information\_Disclosure\_Statement EFS\_ID=67638 APP\_ID=09590955 DOC\_TYPE=us-ids

## Remarks

Note: Remarks are not for responding to an office action.

Patent Cite nos. 1-4 are co-owned patents which are directed to related subject matter. Cite nos. 1-4 and 29 were cited in a Notice of Allowance in related U.S. Patent Application No. 09/838,387, filed April 20, 2001, entitled "Method and System for Down-Converting and Up-Converting an Electromagnetic Signal, and Transforms for Same," directed to related subject matter. Also cited in said Notice of Allowance were U.S. Patent Nos. 5,937,013, 6,061,551, and 6,647,250, which have already been cited in the present application. Patent Cite nos. 2, 3, 43 and 44 were cited in a Notice of Allowance in related U.S. Patent Application No. 09/525,615, filed March 14, 2000, entitled "Method, System and Apparatus for Balanced Frequency Up-Conversion of a Baseband Signal and 4-Phase Receiver and Transceiver," directed to related subject matter. Also cited in said Notice of Allowance were U.S. Patent Nos. 6,091,940 and 6,370,371, which have already been cited in the present application. Patent Cite nos. 5-8 were cited in an Office Action in related U.S. Patent Application No. 09/567,978, filed May 10, 2000, entitled "Carrier and Clock Recovery Using Universal Frequency Translation," directed to related subject matter. Also cited in said Office Action was U.S. Patent No. 5,937,013, which has already been cited in the present application. Patent Cite nos. 9 and 10 were cited in a Notice of Allowance in related U.S. Patent Application No. 10/330,219, filed December 30, 2002, entitled "Methods and Systems for Down-Converting Electromagnetic Signals, and Applications Thereof," directed to related subject matter. Patent Cite nos. 11-22 were cited in an Office Action in related U.S. Patent Application No. 09/566,188, filed May 5, 2000, entitled "Integrated Frequency Translation and Selectivity with Gain Control Functionality, and Applications Thereof," directed to related subject matter. Patent Cite nos. 23 and 24 were cited in an Office Action in related U.S. Patent Application No. 09/632,856, filed August 4, 2000, entitled "Wireless Local Area Network (WLAN) Using Universal Frequency Translation Technology Including Multi-Phase Embodiments and Circuit Implementation," directed to related subject matter. Patent Cite nos. 25-27 were cited in an Office Action in related U.S. Patent Application No. 09/569,044, filed May 10, 2000, entitled "Universal Platform Module and Methods and Apparatuses Relating Thereto Enabled by Universal Frequency Translation Technology," directed to related subject matter. Also cited in said Office Action were U.S. Patent Nos. 2,057,613; 2,241,078; 2,283,575; 2,358,152; 2,410,350; 2,451,430; 2,472,798; 4,653,117; and 5,241,561, which have already been cited in the present application. Patent Cite no. 28 was cited in an Office Action in related U.S. Patent Application No. 10/289,377, filed November 7, 2002, entitled "Method and Apparatus for Reducing DC Offsets in a Communication System," directed to related subject matter. Also cited in said Office Action were U.S. Patent Nos. 5,471,665; 5,793,817; and 5,898,912, which have already been cited in the present application. Patent Cite nos. 30 and 31 were cited in an Office Action in related U.S. Patent Application No. 09/525,185, filed March 14, 2000, entitled "Spread Spectrum Applications of Universal Frequency Translation Technology," directed to related subject matter. Also cited in said Office Action were U.S. Patent Nos. 5,339,459; 5,369,789; and 5,937,013, which have already been cited in the present application. Patent Cite nos. 32-35 were cited in an Office Action in related U.S. Patent Application No. 09/569,045, filed May 10, 2000, entitled "Methods and Apparatuses Relating to a Universal Platform Module and Enabled by Universal Frequency Translation Technology," directed to

related subject matter. Also cited in said Office Action were U.S. Patent Nos. 5,339,459 and 5,557,641, which have already been cited in the present application. Patent Cite nos. 36-38 were cited in an Office Action in related U.S. Patent Application No. 09/550,642, filed April 14, 2000, entitled "Method and System for Down converting an Electromagnetic Signal, and Transforms for Same," directed to related subject matter. Patent Cite nos. 39 and 40 were cited in an Office Action in related U.S. Patent Application No. 10/317,165, filed December 12, 2002, entitled "Method and Apparatus for Reducing DC Offsets in Communication Systems Using Universal Frequency Translation Technology," directed to related subject matter. Patent Cite no. 41 was cited in an Office Action in related U.S. Patent Appl. No. 09/567,977, filed May 10, 2000, entitled, "Optical Down-converter Using Universal Frequency Translation Technology," directed to related subject matter. Patent Cite no. 42 was cited in an Office Action in related U.S. Patent Application No. 09/476,093, filed January 3, 2000, entitled "Communication System Method with Multi-Mode and Multi-Band Functionality and Embodiments Thereof, Such as the Family Radio Service," directed to related subject matter. Also cited in said Office Action were U.S. Patent Nos. 5,937,013 and 5,790,587, which have already been cited in the present application. Patent Cite nos. 45 and 46, and Published Application cite no. 1 were cited in a Written Opinion in related PCT Application No. PCT/US03/16403, filed May 27, 2003, entitled "Method and Apparatus for DC Offset Removal in a Radio Frequency Communication Channel," directed to related subject matter.

Signature

Examiner Name	Date
Curtis Odom	10/19/04



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	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
CO	AH56	4,441,080	04/1984	Saari			
CO	AI56	4,873,492	10/1989	Myer			

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	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AN		
	AO		
CO	AP	59	Deboo, Gordon J., <i>Integrated Circuits and Semiconductor Devices</i> , 2 <sup>nd</sup> Edition, McGraw-Hill, Inc., pp. 41-45 (1977).
	AQ		
	AR		

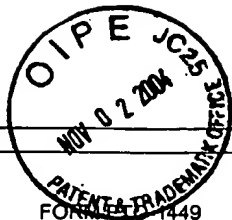
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CP	AA57	5,697,074	12/1997	Makikallio <i>et al.</i>			
	AB57	5,784,689	07/1998	Kobayashi			
	AC57	6,335,656 B1	01/2002	Goldfarb <i>et al.</i>			
	AD57	6,690,232 B2	02/2004	Ueno <i>et al.</i>			
	AE57	5,636,140	06/1997	Lee <i>et al.</i>			
	AF57	6,366,622 B1	04/2002	Brown <i>et al.</i>			
	AG57	6,600,795 B1	07/2003	Ohta <i>et al.</i>			
	AH57	4,250,458	02/1981	Richmond <i>et al.</i>			
	AI57	5,760,629	06/1998	Urabe <i>et al.</i>			

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	AP		
	AQ		
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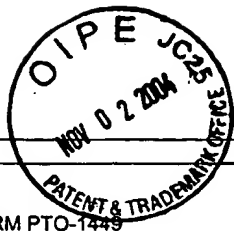
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W	AA58	6,084,465	07/2000	Dasgupta			
	AB58	6,204,789 B1	03/2001	Nagata			
	AC58	6,064,054	05/2000	Waczynski <i>et al.</i>			
	AD58	5,218,562	06/1993	Basehore <i>et al.</i>			
	AE58	5,239,496	08/1993	Vancraeynest			
	AF58	5,896,304	04/1999	Tiemann <i>et al.</i>			
	AG58	6,005,903	12/1999	Mendelovicz			
	AH58	5,834,979	11/1998	Yatsuka			
	AI58	6,798,351 B1	09/2004	Sorrells <i>et al.</i>			

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